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ABSTRACT

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3       Light source monitoring apparatus includes a light  
4       source having drive electronics for supplying drive current  
5       to the light source. A monitor diode is connected to the  
6       drive electronics for controlling the amount of drive  
7       current supplied to the light source. A lens system is  
8       positioned to receive the beam of light from the light  
9       source and transmit substantially all of the beam of light  
10      along an optical axis to a light terminal. The lens  
11      system includes a first lens element positioned along the  
12      optical axis and adjacent the light source and a second  
13      lens element positioned along the optical axis and adjacent  
14      the light terminal. A light reflecting surface in the lens  
15      system is positioned along the optical axis to reflect a  
16      portion of the beam of light at an angle to the optical  
17      axis onto the monitor diode.

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